

Applicant(s) : Satoshi IMAI et al.
Serial No. : 10/532,328
Title : OPTICAL UNIT AND IMAGE-PICKUP APPARATUS
Filed : April 22, 2005
Examiner : Blackman, Rochelle, Ann J.
Art Unit : 2862
Confirmation No. : 1689

RECEIVED
CENTRAL FAX CENTER

JUN 02 2008

Proposed Abstract
for Examiner's Amendment

~~The present invention relates to a~~ A collapsible type optical unit is described that is
capable of moving its optical system between a working position and a retracted position as well
as an image-pickup apparatus including the optical unit. ~~Particularly, the present invention~~
~~relates to the~~ The optical unit and the image-pickup apparatus is capable of acquiring lens-
position information by detecting a position of a lens barrel supported to be movable with respect
to a fixed barrel. ~~The optical unit according to the present invention is a~~ The collapsible type
optical unit ~~including~~ includes a second group lens frame movable along ~~the~~ a direction of its
optical axis with respect to a fixed ring and a rear barrel, and a solid-state image-pickup device
provided behind the second group lens frame, in which on the movable second group lens frame,
a position-detecting means for detecting a position of the second group lens frame is provided.
~~According to the present invention, projection and the like on the exterior portion can be~~
~~eliminated to be small in size and an increase of the number of parts and the number of processes~~
~~can be restricted to the minimum.~~

00553820.DOC